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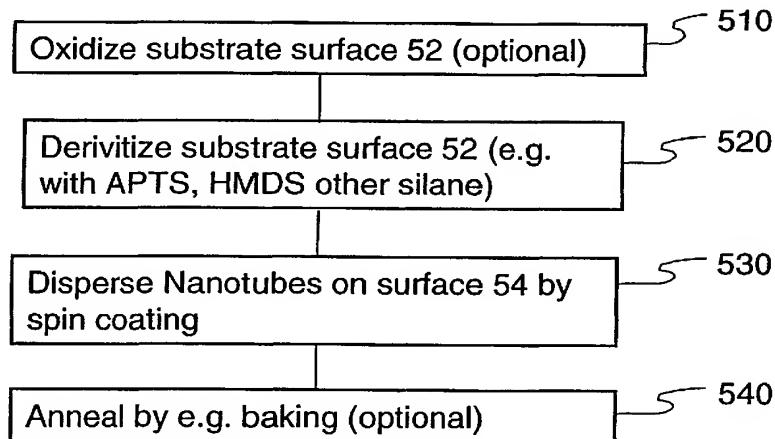
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(54) Title: METHODS OF USING PRE-FORMED NANOTUBES TO MAKE CARBON NANOTUBE FILMS, LAYERS, FABRICS, RIBBONS, ELEMENTS AND ARTICLES



510 OXYDATION DE LA SURFACE DU SUBSTRAT 52
(FACULTATIF)
520 FORMATION DE DÉRIVÉS SUR LA SURFACE DU
SUBSTRAT (PAR EXEMPLE AVEC APTS, HMDS OU UN
AUTRE SILANE)
530 DISPERSION DES NANOTUBES SUR LA SURFACE 54
PAR CENTRIFUGATION
540 RECUIT PAR CUISSON PAR EXEMPLE (FACULTATIF)

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(57) Abstract: Methods of Using Preformed Nanotubes to Make Carbon Nanotube films, Layers, Fabrics, Ribbons, elements and Articles are disclosed. To make various articles, certain embodiments provide a substrate (12). Preformed nanotubes are applied to a surface of the substrate to create a non-woven fabric of carbon nanotubes. Portions of the non-woven fabric (54) are selectively removed according to a defined pattern to create the article. To make a nanofabric, a substrate is provide. Preformed nanotubes are applied to a surface of the substrate to create a non-woven fabric of carbon nanotubes wherein the non-woven fabric is substantially uniform density.

